

Amendments to the Claims

This listing of claim will replace all prior versions and listings of claim in the application.

1. (currently amended) A method implemented by a processing device on a telephone for backing up personal information stored in a telephone, comprising:

presenting a back-up system user account set-up interface on a user interface on the phone, the set-up interface enabling establishment of a back-up service account, and the set-up interface including a display, one or more alphanumerical buttons and one or more soft buttons, different than the alphanumerical buttons, on the phone, the function of the one or more soft buttons on the phone changing, under control of a software application agent on the phone, depending on the content displayed on the display screen;

presenting a backup scheduling interface to the user interface on the phone, the backup scheduling interface accepting user input on a backup schedule, and the backup scheduling interface including a display, one or more alphanumerical buttons and one or more soft buttons, different than the alphanumerical buttons, on the phone, the function of the one or more soft buttons on the phone changing, under control of a software application agent on the phone, depending on the content displayed on the display screen; and

presenting a restore information interface on the user interface on the phone, the restore interface enabling a user to retrieve backup information to a data store on the phone, and the restore information interface including a display, one or more alphanumerical buttons and one or more soft buttons, different than the alphanumerical buttons, on the phone, the function of the one or more soft buttons on the phone changing, under control of a software application agent on the phone, depending on the content displayed on the display screen.

2. (original) The method of claim 1 wherein the user account setup interface calls a method allowing the user to set up a backup account with a backup store.

3. (original) The method of claim 1 wherein the backup scheduling interface sets an interval to regularly send personal information to the backup store.

4. (original) The method of claim 1 wherein the backup scheduling interface causes the transmission of personal information to the backup store upon modification of the information on the phone.
5. (previously presented) The method of claim 1 wherein the restore interface calls a method to upload all stored information on a backup data store to the data store on the phone.
6. (previously presented) The method of claim 5 wherein the method further includes providing a rollback interface to the user interface on the phone.
7. (original) The method of claim 6 wherein the rollback interface is accessed via a web browser.
8. (original) The method of claim 6 where the rollback interface is accessed via a wireless protocol.
9. (original) The method of claim 6 wherein the rollback interface calls a method uploading changes based on a particular date
10. (original) The method of claim 1 wherein the method further includes providing an undelete interface.
11. (original) The method of claim 10 wherein the undelete interface is accessed via a web browser.
12. (original) The method of claim 10 wherein the undelete interface is accessed via a wireless protocol such as WAP.
13. (original) The method of claim 10 wherein the undelete interface calls a method which transmits a change associated with a particular record in a user's personal information space.

14. (original) The method of claim 1 wherein said personal information comprises an address book data store.

15. (currently amended) The method of claim 1 wherein said personal information comprises ~~an~~ a task entry data store.

16. (currently amended) The method of claim 1 wherein said personal information comprises ~~an~~ a calendar entry data store.

17. (currently amended) The method of claim 1 wherein said personal information comprises a note entry data store.

18. (currently amended) The method of claim 1 wherein said personal information comprises an alarm data store.

19. (original) The method of claim 1 wherein said personal information comprises a custom dictionary data store.

20. (currently amended) A method for storing personal information in a wireless telephone in a backup storage database, comprising:

providing a phone agent including instructions operable by a processor in the phone to implement an automated phone data transmission method capable of regularly transmitting changes to a backup store via a communications link, and a restore method retrieving backup information to a data store on the phone, the agent including a backup service sign-up interface, a backup method scheduling interface and a restore interface, calling the restore method, all provided to a user interface on the phone, the user interface on the phone including a display and one or more buttons on the phone; and

responsive to user entry at the restore interface of said agent, providing changes from the backup store to the wireless telephone.

21. (previously presented) The method of claim 20 wherein the method further includes accepting personal information from the telephone at intervals defined by the user via the backup method scheduling interface.

22. (previously presented) The method of claim 20 wherein the method further includes accepting user account set-up data from the service sign-up interface of the agent.

23. (original) The method of claim 20 wherein the method further includes assigning a schedule of download intervals to the agent.

24. (original) The method of claim 21 wherein the method further includes modifying the interval schedule to load balance amongst a plurality of users.

25. (original) The method of claim 20 further including providing a notification to the agent that changes have been made to the backup store via a secondary interface.

26. (previously presented) The method of claim 25 wherein the phone agent updates the data store on phone upon receipt of a notification.

27. (original) The method of claim 25 wherein the notification is a SMS message.

28. (original) The method of claim 20 wherein the notification is a result of polling the server for changes.

29. (original) The method of claim 25 wherein the method further includes providing the secondary interface and the secondary interface is a web interface.

30. (currently amended) A method implemented on a wireless telephone for maintaining personal information in the wireless telephone, comprising:

presenting a back-up system user account set-up interface on a user interface on the phone,
the user interface on the phone including a display and buttons on the phone;

establishing a user account via the back-up system user account set-up interface, the user account identifying the user by an unique designation; and

transmitting phone data to a backup store via a wireless network at regular intervals scheduled by the user.

31. (original) The method of claim 30 wherein the step of transmitting includes transmitting phone data at user-defined intervals

32. (original) The method of claim 30 wherein the step of transmitting occurs upon receipt of an indication from backup store that changes to data on the data store have occurred.

33. (original) The method of claim 32 wherein the indicator is an SMS message.

34. (original) The method of claim 32 wherein the indicator is a result of polling the backup store to determine if changes have occurred.

35. (original) The method of claim 30 wherein the step of transmitting includes transmitting only changes to phone data.

36. (original) The method of claim 35 wherein the step of transmitting includes transmitting only changes to phone data in the form of change logs.

37. (original) The method of claim 36 wherein the method further includes the step of restoring data to the phone by applying all change logs.

38. (original) The method of claim 30 further including the step of providing an interface to the store via the web to alter data in the data store.

39. (original) The method of claim 38 further including the step transmitting data changed by the interface to the phone at a user scheduled interval.

40. (original) The method of claim 38 further including the step transmitting data changed by the interface to the phone at upon a user initiated action.

41. (original) The method of claim 38 further including the step transmitting data changed by the interface to the phone at a server-directed interval.

42. (previously presented) An method implemented by a processor on for a wireless telephone, comprising:

an automated backup process transmitting changes to the backup system at user defined intervals; and

a restore process activated by a user via a restore interface provided to the user by the application on the phone, to restore information stored on the backup system to the phone.

43. (original) The application of claim 42 wherein the application further includes a rollback phone information process.

44. (original) The application of claim 43 wherein rollback information process returns data on the wireless to a state existing on a specified date.

45. (original) The application of claim 42 wherein the application further includes an undelete record process.

46. (original) The application of claim 42 wherein the application includes a BREW agent.

47. (original) The application of claim 42 wherein the application includes a JAVA agent.

48. (original) The application of claim 42 including a SyncML communications module.
49. (original) The application of claim 48 wherein the application operates to transmit changes from the backup system to the phone.
50. (original) The application of claim 49 wherein the SyncML communications module includes a SyncML client.
51. (original) The application of claim 48 wherein the SyncML communications module communicates with a SyncML client in the telephone.
52. (previously presented) An application for storing personal information in a wireless telephone having a user interface and having a data store, to a backup system, comprising:
an automated user account creation method initiated by the user via a user interface on a wireless telephone, the creation method accessing the backup system using a unique identifier for the user to create a user account on the backup system;
an automated backup method transmitting changes to the backup system at user defined intervals; and
a restore method called by the user through a restore interface presented on the user interface of the phone, the restore method providing user data to a phone.
53. (original) The application of claim 52 wherein the application includes a rollback method providing a state of user data existing as of a specified date.
54. (original) The application of claim 52 wherein the application includes an undelete method providing at least one restored data item previously deleted by a user action.
55. (original) The application of claim 52 wherein at least the backup method and the account creation method are initiated by the agent.

56. (original) The application of claim 52 wherein the intervals are defined by user but altered by administrator.

57. (original) The application of claim 52 wherein the intervals are regular.

58. (original) The application of claim 52 wherein the intervals are arbitrary.

59. (original) The application of claim 52 wherein the restore method operates responsive to a phone recognized as having no data and an existing user account.

60. (original) The application of claim 52 wherein the account creation method is performed by the backup system via a secondary interface provided to the user.

61. – 81. (cancelled)

82. (new) A user interface implemented by a processing device on a telephone for backing up personal information stored in a telephone, comprising:

- an account-setup interface on the phone enabling establishment of a back-up service account;

- a scheduling interface on the phone allowing a user to manually set up a schedule for backing up data on the phone, the scheduling interface including:

- a display on the phone,

- alphanumeric buttons on the phone,

- soft buttons on the phone, different than the alphanumeric buttons, the function of the soft buttons changing depending on what is displayed on the display, and

- a software application agent on the phone for: 1) controlling what is displayed on the display, 2) controlling the function of the soft buttons, and 3) setting up a back-up schedule when information is sent to a back-up store based on information manually entered into the scheduling interface; and

a restore information interface enabling a user to retrieve backup information to a data store on the phone.

83. (new) The user interface of claim 82 wherein the backup scheduling interface causes the transmission of personal information to the backup store upon modification of the information on the phone.

84. (new) The user interface of claim 82 wherein the restore interface calls a method to upload all stored information on a backup data store to the data store on the phone.

85. (new) The user interface of claim 84 wherein the user interface further includes a rollback interface which returns data on the phone to a state existing on a specified date.

86. (new) The user interface of claim 82 wherein said information comprises an address book data store.

87. (new) The user interface of claim 82 wherein said information comprises a task entry data store.

88. (new) The user interface of claim 82 wherein said information comprises a calendar entry data store.

89. (new) The user interface of claim 82 wherein said information comprises a note entry data store.

90. (new) The user interface of claim 82 wherein said information comprises an alarm data store.

91. (new) The user interface of claim 82 wherein said personal information comprises a custom dictionary data store.

92. (new) A user interface implemented by a processing device on a telephone for backing up personal information stored in a telephone, comprising:

- an account-setup interface on the phone enabling establishment of a back-up service account;

- a scheduling interface on the phone allowing a user to manually set up a schedule for backing up data on the phone;

- a restore information interface enabling a user to retrieve backup information to a data store on the phone, one or more of the account-setup interface, scheduling interface and the restore information interface including:

 - a display on the phone,

 - alphanumeric buttons on the phone, and

 - soft buttons on the phone, different than the alphanumeric buttons, the function of the soft buttons changing depending on what is displayed on the display;

- and

- a software application agent on the phone for: 1) controlling what is displayed on the display, and 2) variably setting the function of the soft buttons.

93. (new) A user interface implemented by a processing device on a telephone for backing up personal information stored in a telephone, comprising:

- an account-setup interface on the phone enabling establishment of a back-up service account;

- a scheduling interface on the phone allowing a user to manually set up a schedule for backing up data on the phone; and

- a restore information interface enabling a user to retrieve backup information to a data store on the phone;

- one or more of the account-setup interface, scheduling interface and the restore information interface including a display on the phone, the display displaying one or more of words and icons, a user interacting with the user interface by selecting one or more of the words and icons on the display; and

a software application agent on the phone for: 1) controlling what is displayed on the display, and 2) controlling backup of personal information based on the selection of one or more of the words and icons on the display.